# Practical 1-4

### Objective: Sorting Algorithm

1. Bubble Sort
2. Selection Sort
3. Insertion Sort
4. Merge Sort
5. Quick Sort

# Practical 5, 6

### Objective: Recursion

- Power
- Square Root

# Practical 7

### Objective: Inversion Problem Program

# Practical 8, 13

### Objective: Knapsack

- Fractional
- 0 – 1

# Practical 9, 10

### Objective: MST

- Kruskal
- Prims

# Practical 11, 12

### Objective: Memoization
- Factorial
- Fibonacci

# Practical 14-16

### Objective: Dynamic Programming Question
- Chain Matrix Multiplication
- Longest Common Subsequence
- 4 – Queen Problem

# Practical 17 – 20

### Objective: Graph Algorithm
- DFS
- BFS
- Cyclic
- Topological Sort